

## Characterization Well R-22:

Location: TA-54, Mesita del Buey  
near White Rock, NM.

NAD 83 Survey coordinates (brass marker  
in NW corner of cement pad):  
x: 1645324.4 E y: 1757111.1 N  
z: 6650.5 ft asl

Drilling: hollow stem auger and  
fluid-assist air rotary reverse  
circulation with casing advance  
Phase 1 Start date: 8/17/00  
Phase 1 End date: 8/21/00  
Phase 2 Start date: 9/8/00  
Phase 2 End date: 10/11/00

Borehole drilled to 1489 ft

### Data collection:

#### Hydrologic properties:

Field Hydraulic Testing: Slug tests  
conducted on screens 2, 3, 4, and 5.

Cores/cuttings submitted for geochemical  
and contaminant characterization: (0)

Groundwater samples submitted for  
geochem and cont. characterization: (2)

#### Geologic properties:

Mineralogy, petrography, and chemistry (28)

#### Borehole logs:

Lithologic (0-1489 ft)

Video (LANL tool) 187-254 ft and 580-740 ft.

Natural gamma (LANL tool): cased 0-1330 ft,  
open hole 1330-1475 ft.

Schlumberger Logs (0-1330 ft cased, 1330-  
1477 ft open hole): Neutron porosity, Spectral  
Gamma, Gamma-Gamma Density, and  
Elemental Capture Spectroscopy

### Contaminants Detected in Borehole Samples:

Regional groundwater: borehole screening  
data indicate tritium above background.

### Well construction:

Drilling Completed: 10/11/00

Contract Geophysics: 10/13/00

Well Constructed: 10/17/00-11/03/00

Well Developed: 11/04/00-11/14/00

Westbay Installed: 12/07/00-12/10/00

Casing: 4.5-in I.D. stainless steel with external  
couplings

### Number of Screens: 5

4.5-in I.D. pipe based, s.s. wire-wrapped;  
0.010-in slot

### Screen (perforated pipe interval):

Screen #1 - 872.3 ft to 914.2 ft

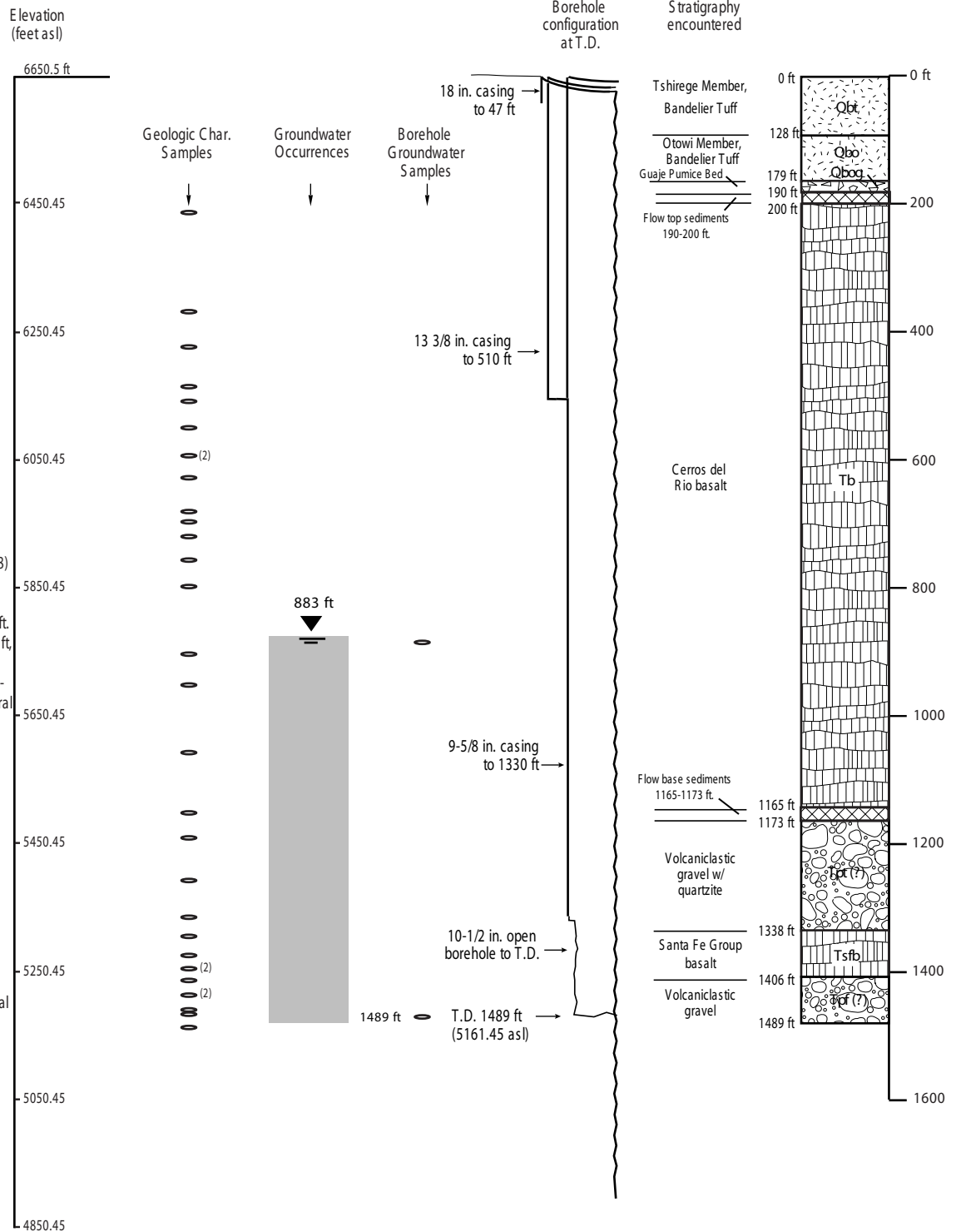
Screen #2 - 947.0 ft to 988.9 ft

Screen #3 - 1272.2 ft to 1278.9 ft

Screen #4 - 1378.2 ft to 1384.9 ft

Screen #5 - 1447.3 ft to 1452.3 ft

Well development consisted of brushing,  
bailing, and pumping each screen; and  
bailing and pumping the sump. Pump  
development was conducted with a single  
packer inflated below each targeted screen.



Groundwater occurrence was determined  
by recognition of first water produced while  
drilling. Static water levels were determined  
after the borehole was rested.

Geologic contacts determined by examination  
of cuttings and interpretation of natural gamma logs.  
Contacts may be refined by analysis of geologic  
samples by petrography and rock chemistry.